Name:

at1113exam: Expand, factor, and solve quadratics (v213)

1. Expand the following expression into standard form.

$$(5x + 8)(5x - 8)$$

2. Solve the equation.

$$(9x + 2)(3x + 5) \;=\; 0$$

3. Expand the following expression into standard form.

$$(5x - 9)^2$$

4. Expand the following expression into standard form.

$$(9x - 4)(8x - 7)$$

5. Solve the equation with factoring by grouping.

$$20x^2 - 15x + 24x - 18 \;=\; 0$$

6. Factor the expression.

$$9x^2 - 16$$

7. Solve the equation.

$$8x^2 + 40x + 43 \;=\; 3x^2 + 2x - 5$$

8. Factor the expression.

$$x^2 + 11x + 28$$